PATENT COOPERATION TREAT? JUL 1 1 2005 From the INTERNATIONAL SEARCHING AUTHORITY MARSH FISCHMANN & BREYFOGLE LLP To: MARSH FISCHMANN & BREYFOGLE LLP 3151 SOUTH VAUGHN WAY, SUITE 411 BREYFOGLE, ROSS E. WRITTEN OPINION OF THE AURORA, CO 80014 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) 08 JUL 2005 Date of mailing (day/month/year) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below 12854-20392 Priority date (day/month/year) International filing date (day/month/year) International application No. 19 March 2004 (19.03.2004) 18 March 2005 (18.03.2005) PCT/US05/08995 International Patent Classification (IPC) or both national classification and IPC IPC(7): E21B 43/28 and US Cl.: 75/712, 711, 743 Applicant NEWMONT USA LIMITED 1. This opinion contains indications relating to the following items: Basis of the opinion Box No. I Box No. II **Priority** Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Lack of unity of invention Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement

## 2. FURTHER ACTION

Box No. VI

Box No. VII

Box No. VIII

A SECTION ASSESSED.

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Certain documents cited

Certain defects in the international application

Certain observations on the international application

Name and mailing address of the ISA/ US Mail Stop PCT, Atm: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Authorized officer

Roy King

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Facsimile No. (703) 305-3230 Form PCT/ISA/237 (cover sheet) (January 2004)

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US05/08995

Box No. I Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which
it was filed, unless otherwise indicated under this item.  This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
in written format
in computer readable form
c. time of filing/furnishing
contained in international application as filed.
filed together with the international application in computer readable form.
furnished subsequently to this Authority for the purposes of search.
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:
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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/08995

Box No. V Reasoned statement under Rule applicability; citations and expla	e 43 <i>bis</i> .1(a)(i) with	regard to novelty, invent g such statement	ive step or industrial
1. Statement			
Novelty (N)	Claims 4-7		YES
novely (14)	Claims 1-3 a	and 8-54	NO
			YES
Inventive step (IS)	Claims NON		NO YES
	Claims 1-54		
Industrial applicability (IA)	Claims 1-54		YES
	Claims NO	NE	NO
<ol> <li>Citations and explanations:</li> <li>Claims 1-3 and 8-54 lack novelty under PCT Articheap leaching, well formation, surveying the heap heap, where the material to be extracted can be an all aspects of the above claims.</li> </ol>	to and adjusting the li	eaching to filting leadii illouii	pictery icached sections of the
Claims 4-7 lack an inventive step under PCT Article above. Lesty et al shows all aspects of the above of the lechant in the heap. Bodine teaches that by heap which are insufficiently leached. The manner taught by Bodine, are not seen to impart any inverse are substantially the same. Because improved lech step, as disclosed by Bodine, would not have requives made.	inducing cracks or fra r of induction of the fi ntive difference in the	or a fracture process for children icture in the heap lechant can n racture, whether through hydra process as a whole since the n so desirable in Lesty et al. mol	more easily access areas of the fullic means or sonic means as esults of both fracture processed tivation to include a fracture
Claims 1-54 meet the criteria set out in PCT Artic claimed can be made or used in industry.	tle 33(4), and thus pos	ssess industrial applicability be	cause the subject matter
Claimed can be made of used in middsty.			
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